

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1712mxf

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 21	IPC search and display fields enhanced in CA/Caplus with the IPC reform
NEWS	4	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/USPAT2
NEWS	5	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
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NEWS	7	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	8	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS	9	JAN 30	Saved answer limit increased
NEWS	10	JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA
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NEWS	13	FEB 22	The IPC thesaurus added to additional patent databases on STN
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NEWS	15	FEB 27	New STN AnaVist pricing effective March 1, 2006
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NEWS	17	FEB 28	TOXCENTER reloaded with enhancements
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NEWS HOURS			STN Operating Hours Plus Help Desk Availability
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:49:48 ON 27 MAR 2006

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:50:06 ON 27 MAR 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8  
DICTIONARY FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

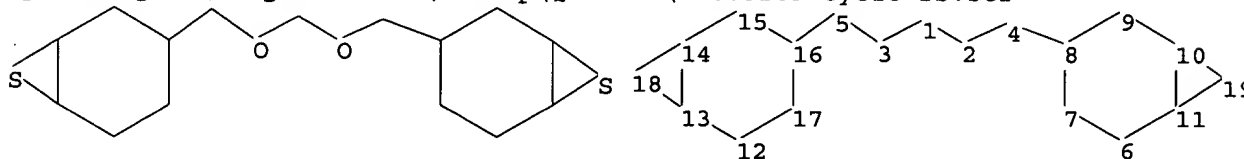
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo SS.str



chain nodes :

1 2 3 4 5

ring nodes :

6 7 8 9 10 11 12 13 14 15 16 17 18 19

chain bonds :

1-3 1-2 2-4 3-5 4-8 5-16

ring bonds :

6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17 13-14 13-18 14-15  
14-18 15-16 16-17

exact/norm bonds :

1-3 1-2 2-4 3-5 6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17  
 13-14 13-18 14-15 14-18 15-16 16-17  
 exact bonds :  
 4-8 5-16

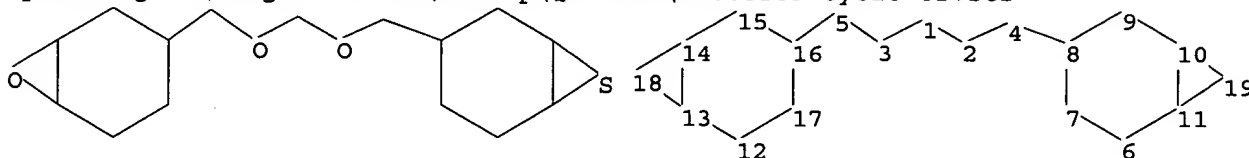
Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom  
 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom  
 19:Atom

L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo OS.str



chain nodes :

1 2 3 4 5

ring nodes :

6 7 8 9 10 11 12 13 14 15 16 17 18 19

chain bonds :

1-3 1-2 2-4 3-5 4-8 5-16

ring bonds :

6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17 13-14 13-18 14-15  
 14-18 15-16 16-17

exact/norm bonds :

1-3 1-2 2-4 3-5 6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17  
 13-14 13-18 14-15 14-18 15-16 16-17

exact bonds :

4-8 5-16

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom  
 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom  
 19:Atom

L2 STRUCTURE UPLOADED

=> s sam l1

SAMPLE SEARCH INITIATED 16:50:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED

2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2 TO 124

PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> s sam l2

SAMPLE SEARCH INITIATED 16:50:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2

=> s full l1

FULL SEARCH INITIATED 16:50:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 39 TO ITERATE

100.0% PROCESSED 39 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L5 0 SEA SSS FUL L1

=> s full l2

FULL SEARCH INITIATED 16:50:43 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

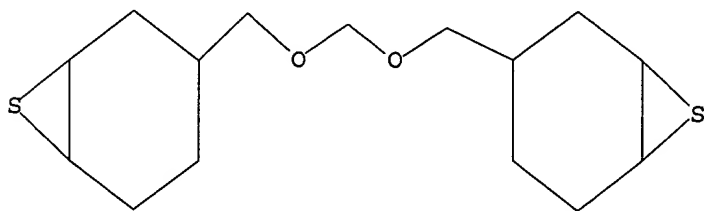
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L2

=> d l1

L1 HAS NO ANSWERS

L1 STR

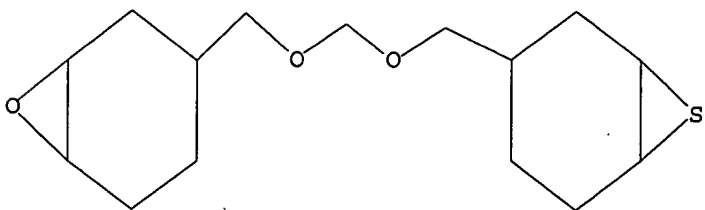


Structure attributes must be viewed using STN Express query preparation.

=> d l2

L2 HAS NO ANSWERS

L2 STR



Structure attributes must be viewed using STN Express query preparation.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	334.32	334.53

STN INTERNATIONAL LOGOFF AT 16:51:44 ON 27 MAR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:57:04 ON 27 MAR 2006

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:57:29 ON 27 MAR 2006  
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DICTIONARY FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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\*\*\*\*\*  
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\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> file registry  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.44	0.65

FILE 'REGISTRY' ENTERED AT 16:57:46 ON 27 MAR 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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STRUCTURE FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8  
DICTIONARY FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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\*  
\*\*\*\*\*

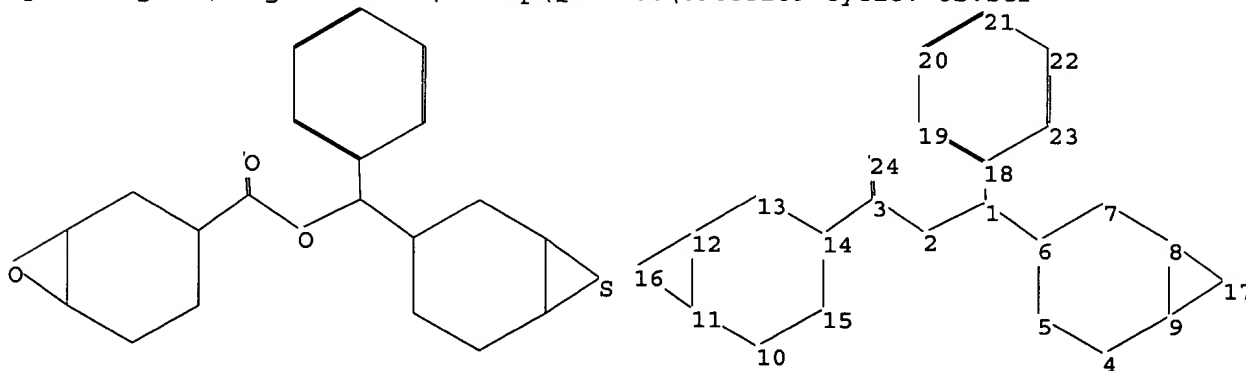
Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo7 OS.str



chain nodes :  
1 2 3 24  
ring nodes :

```

4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
chain bonds :
1-2 1-18 1-6 2-3 3-14 3-24
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12 11-16 12-13 12-16
13-14 14-15 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 2-3 3-24 4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12
11-16 12-13 12-16 13-14 14-15
exact bonds :
1-18 1-6 3-14
normalized bonds :
18-19 18-23 19-20 20-21 21-22 22-23

```

Match level :

```

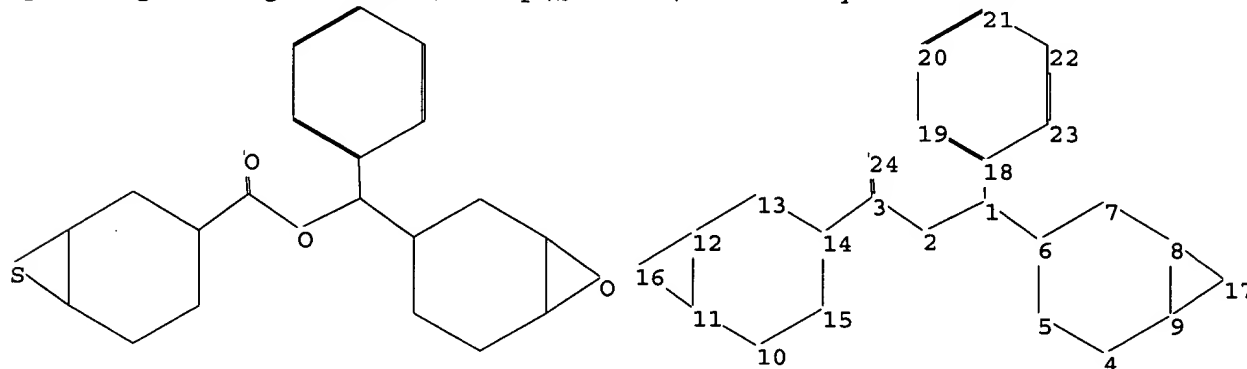
1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

```

L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo7 SO.str



```

chain nodes :
1 2 3 24
ring nodes :
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
chain bonds :
1-2 1-18 1-6 2-3 3-14 3-24
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12 11-16 12-13 12-16
13-14 14-15 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 2-3 3-24 4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12
11-16 12-13 12-16 13-14 14-15
exact bonds :
1-18 1-6 3-14
normalized bonds :
18-19 18-23 19-20 20-21 21-22 22-23

```

Match level :

```

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

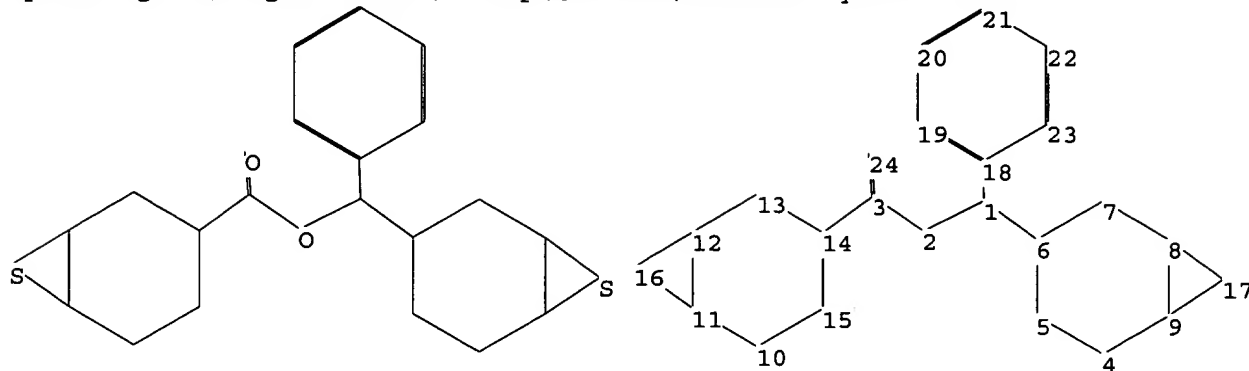
```



L2 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo7 SS.str



chain nodes :

1 2 3 24

ring nodes :

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

1-2 1-18 1-6 2-3 3-14 3-24

ring bonds :

4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12 11-16 12-13 12-16  
13-14 14-15 18-19 18-23 19-20 20-21 21-22 22-23

exact/norm bonds :

1-2 2-3 3-24 4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12  
11-16 12-13 12-16 13-14 14-15

exact bonds :

1-18 1-6 3-14

normalized bonds :

18-19 18-23 19-20 20-21 21-22 22-23

Match level :

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L3 STRUCTURE UPLOADED

=> s sam l1

SAMPLE SEARCH INITIATED 16:58:32 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L1

=> s sam l2

SAMPLE SEARCH INITIATED 16:58:36 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L2

=> s sam l3

SAMPLE SEARCH INITIATED 16:58:39 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1 TO 80  
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L3

=> s full l1

FULL SEARCH INITIATED 16:58:42 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L7 0 SEA SSS FUL L1

=> s full l2

FULL SEARCH INITIATED 16:58:45 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L2

=> s full l3

FULL SEARCH INITIATED 16:58:48 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L9 0 SEA SSS FUL L3

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	500.38	501.03

STN INTERNATIONAL LOGOFF AT 16:58:54 ON 27 MAR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1712mxf

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:03:17 ON 27 MAR 2006

=> file registry

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:03:31 ON 27 MAR 2006

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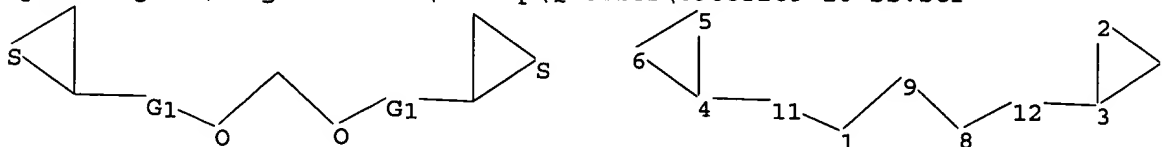
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 SS.str



chain nodes :

```

1  8  9  11  12
ring nodes :
2  3  4  5  6  7
chain bonds :
1-11  1-9  3-12  4-11  8-9  8-12
ring bonds :
2-7  2-3  3-7  4-6  4-5  5-6
exact/norm bonds :
1-11  1-9  2-7  2-3  3-7  3-12  4-6  4-5  4-11  5-6  8-9  8-12

```

G1:Cb,Ak

Match level :

```

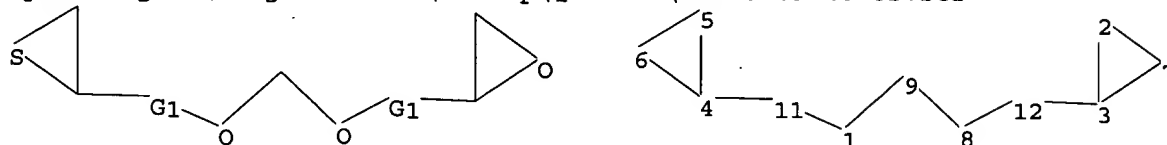
1:CLASS  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:CLASS  9:CLASS  11:CLASS
12:CLASS

```

L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 OS.str



```

chain nodes :
1  8  9  11  12
ring nodes :
2  3  4  5  6  7
chain bonds :
1-11  1-9  3-12  4-11  8-9  8-12
ring bonds :
2-7  2-3  3-7  4-6  4-5  5-6
exact/norm bonds :
1-11  1-9  2-7  2-3  3-7  3-12  4-6  4-5  4-11  5-6  8-9  8-12

```

G1:Cb,Ak

Match level :

```

1:CLASS  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:CLASS  9:CLASS  11:CLASS
12:CLASS

```

L2 STRUCTURE UPLOADED

=> s sam l1

SAMPLE SEARCH INITIATED 17:03:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5789 TO ITERATE

34.5% PROCESSED 2000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 111218 TO 120342

PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> s sam l2

SAMPLE SEARCH INITIATED 17:04:00 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4211 TO ITERATE

47.5% PROCESSED 2000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 80329 TO 88111

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2

=> s full l1

FULL SEARCH INITIATED 17:04:04 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 115678 TO ITERATE

100.0% PROCESSED 115678 ITERATIONS  
SEARCH TIME: 00.00.03

0 ANSWERS

L5 0 SEA SSS FUL L1

=> s full l2

FULL SEARCH INITIATED 17:04:10 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 81845 TO ITERATE

100.0% PROCESSED 81845 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L6 0 SEA SSS FUL L2

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY

SESSION

333.88

334.09

STN INTERNATIONAL LOGOFF AT 17:04:25 ON 27 MAR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal712mxf

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the  
IPC reform  
NEWS 4 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 5 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 6 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 7 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 8 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
NEWS 9 JAN 30 Saved answer limit increased  
NEWS 10 JAN 31 Monthly current-awareness alert (SDI) frequency  
added to TULSA  
NEWS 11 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist  
visualization results  
NEWS 12 FEB 22 Status of current WO (PCT) information on STN  
NEWS 13 FEB 22 The IPC thesaurus added to additional patent databases on STN  
NEWS 14 FEB 22 Updates in EPFULL; IPC 8 enhancements added  
NEWS 15 FEB 27 New STN AnaVist pricing effective March 1, 2006  
NEWS 16 FEB 28 MEDLINE/LMEDLINE reload improves functionality  
NEWS 17 FEB 28 TOXCENTER reloaded with enhancements  
NEWS 18 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral  
property data  
NEWS 19 MAR 01 INSPEC reloaded and enhanced  
NEWS 20 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes  
NEWS 21 MAR 08 X.25 communication option no longer available after June 2006  
NEWS 22 MAR 22 EMBASE is now updated on a daily basis  
  
NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT  
<http://download.cas.org/express/v8.0-Discover/>  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:18:20 ON 27 MAR 2006

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 17:18:36 ON 27 MAR 2006

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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8  
DICTIONARY FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

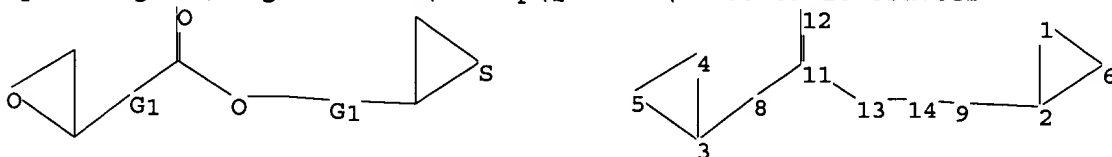
Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 OSa.str



chain nodes :

8 9 11 12 13 14

ring nodes :

1 2 3 4 5 6

chain bonds :

2-9 3-8 8-11 9-14 11-12 11-13 13-14

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-14 11-12 11-13 13-14

G1:Cb,Ak

Match level :

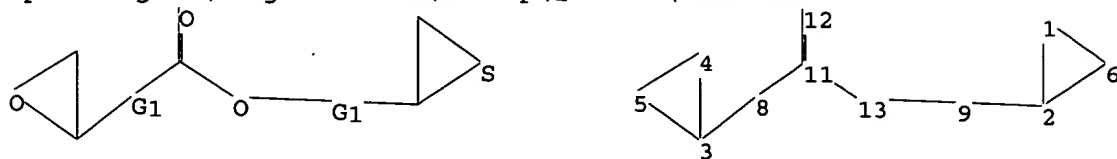
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS  
12:CLASS 13:CLASS 14:CLASS



L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 OSb.str



chain nodes :

8 9 11 12 13

ring nodes :

1 2 3 4 5 6

chain bonds :

2-9 3-8 8-11 9-13 11-12 11-13

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-13 11-12 11-13

G1:Cb,Ak

Match level :

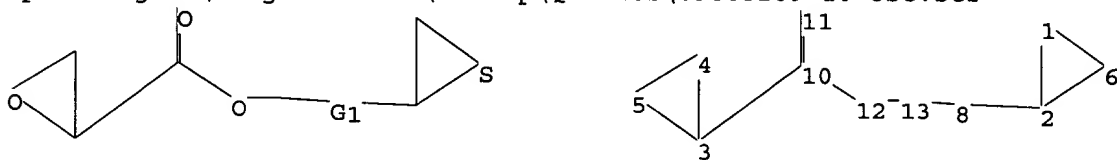
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS

12:CLASS 13:CLASS

L2 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 OSc.str



chain nodes :

8 10 11 12 13

ring nodes :

1 2 3 4 5 6

chain bonds :

2-8 3-10 8-13 10-11 10-12 12-13

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-8 3-5 3-4 4-5 8-13 10-11 10-12 12-13

exact bonds :

3-10

G1:Cb,Ak

Match level :

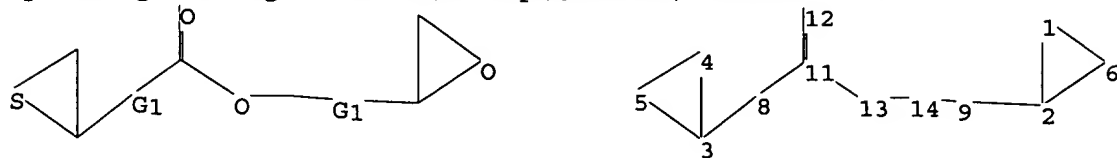
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 10:CLASS 11:CLASS

12:CLASS 13:CLASS

L3 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 SOa.str



chain nodes :

8 9 11 12 13 14

ring nodes :

1 2 3 4 5 6

chain bonds :

2-9 3-8 8-11 9-14 11-12 11-13 13-14

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-14 11-12 11-13 13-14

G1:Cb,Ak

Match level :

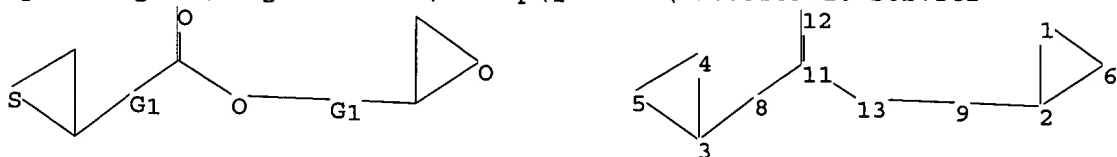
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS

12:CLASS 13:CLASS 14:CLASS

L4 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 SOb.str



chain nodes :

8 9 11 12 13

ring nodes :

1 2 3 4 5 6

chain bonds :

2-9 3-8 8-11 9-13 11-12 11-13

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-13 11-12 11-13

G1:Cb,Ak

Match level :

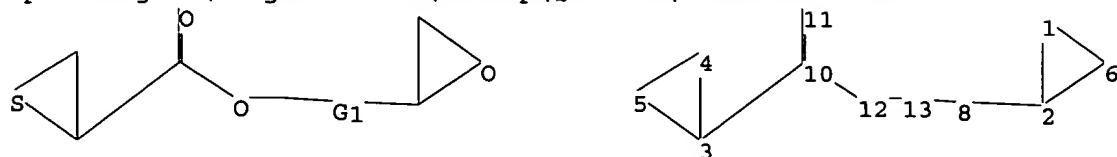
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS

12:CLASS 13:CLASS

L5 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 SOc.str



chain nodes :

8 10 11 12 13

ring nodes :

1 2 3 4 5 6

chain bonds :

2-8 3-10 8-13 10-11 10-12 12-13

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-8 3-5 3-4 4-5 8-13 10-11 10-12 12-13

exact bonds :

3-10

G1:Cb,Ak

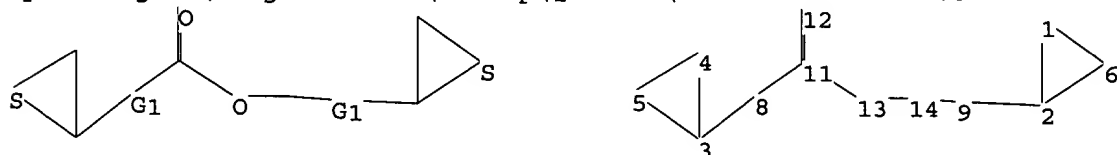
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 10:CLASS 11:CLASS  
12:CLASS 13:CLASS

L6 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 SSa.str



chain nodes :

8 9 11 12 13 14

ring nodes :

1 2 3 4 5 6

chain bonds :

2-9 3-8 8-11 9-14 11-12 11-13 13-14

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-14 11-12 11-13 13-14

G1:Cb,Ak

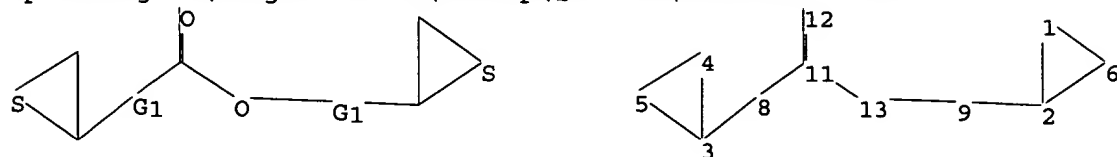
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS  
12:CLASS 13:CLASS 14:CLASS

L7 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 SSb.str



chain nodes :

8 9 11 12 13

ring nodes :

1 2 3 4 5 6

chain bonds :

2-9 3-8 8-11 9-13 11-12 11-13

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-13 11-12 11-13

G1:Cb,Ak

Match level :

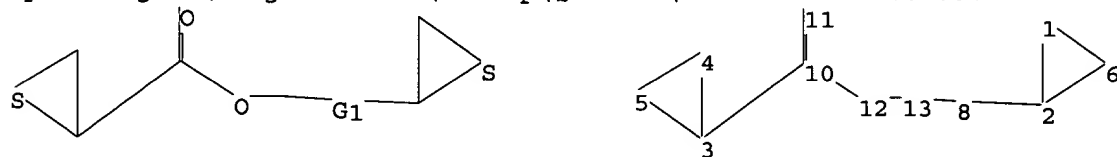
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS

12:CLASS 13:CLASS

L8 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09885269 10 SSc.str



chain nodes :

8 10 11 12 13

ring nodes :

1 2 3 4 5 6

chain bonds :

2-8 3-10 8-13 10-11 10-12 12-13

ring bonds :

1-6 1-2 2-6 3-5 3-4 4-5

exact/norm bonds :

1-6 1-2 2-6 2-8 3-5 3-4 4-5 8-13 10-11 10-12 12-13

exact bonds :

3-10

G1:Cb,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 10:CLASS 11:CLASS

12:CLASS 13:CLASS

L9           STRUCTURE UPLOADED

=> s full 11  
FULL SEARCH INITIATED 17:20:43 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -     69795 TO ITERATE

100.0% PROCESSED     69795 ITERATIONS                   0 ANSWERS  
SEARCH TIME: 00.00.01

L10           0 SEA SSS FUL L1

=> s full 12  
FULL SEARCH INITIATED 17:20:47 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -     81845 TO ITERATE

100.0% PROCESSED     81845 ITERATIONS                   0 ANSWERS  
SEARCH TIME: 00.00.01

L11           0 SEA SSS FUL L2

=> s full 13  
FULL SEARCH INITIATED 17:20:51 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -     11294 TO ITERATE

100.0% PROCESSED     11294 ITERATIONS                   0 ANSWERS  
SEARCH TIME: 00.00.01

L12           0 SEA SSS FUL L3

=> s full 14  
FULL SEARCH INITIATED 17:20:54 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -     69795 TO ITERATE

100.0% PROCESSED     69795 ITERATIONS                   0 ANSWERS  
SEARCH TIME: 00.00.01

L13           0 SEA SSS FUL L4

=> s full 15  
FULL SEARCH INITIATED 17:20:58 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -     81845 TO ITERATE

100.0% PROCESSED     81845 ITERATIONS                   0 ANSWERS  
SEARCH TIME: 00.00.01

L14           0 SEA SSS FUL L5

=> s full 16  
FULL SEARCH INITIATED 17:21:02 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -     28788 TO ITERATE

100.0% PROCESSED     28788 ITERATIONS                   0 ANSWERS  
SEARCH TIME: 00.00.01

L15           0 SEA SSS FUL L6

=> s full 17  
FULL SEARCH INITIATED 17:21:08 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -     83586 TO ITERATE

100.0% PROCESSED     83586 ITERATIONS                   4 ANSWERS  
SEARCH TIME: 00.00.01

L16 4 SEA SSS FUL L7

=> s full 18  
FULL SEARCH INITIATED 17:21:14 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 115678 TO ITERATE

100.0% PROCESSED 115678 ITERATIONS 5 ANSWERS  
SEARCH TIME: 00.00.03

L17 5 SEA SSS FUL L8

=> s full 19  
FULL SEARCH INITIATED 17:21:21 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 9438 TO ITERATE

100.0% PROCESSED 9438 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L18 0 SEA SSS FUL L9

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1500.70	1500.91

FILE 'CAPLUS' ENTERED AT 17:21:43 ON 27 MAR 2006  
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FILE COVERS 1907 - 27 Mar 2006 VOL 144 ISS 14  
FILE LAST UPDATED: 26 Mar 2006 (20060326/ED)

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<http://www.cas.org/infopolicy.html>

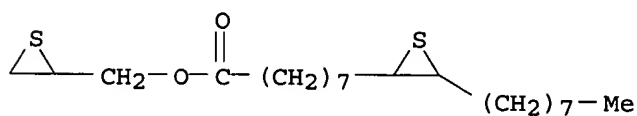
=> s (l16 or l17)  
3 L16  
3 L17  
L19 3 (L16 OR L17)

=> d l19 abs ibib hitstr 1

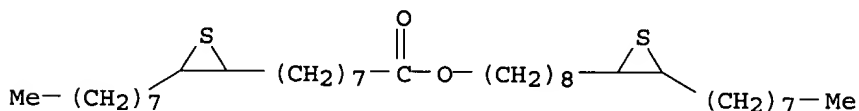
L19 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
AB Esters, amides, and imidazolidines containing chloro, phosphate, dithiophosphate, thio, epithio, mercapto, and sulfuryl groups, alone or in combination, were evaluated as high-pressure lubricants and lubricant additives for paraffin and diester lubricants. The epithio group was the most effective in enhancing the antiwear and extreme-pressure performances of the compds. as additives; sulfurized and chloro sulfone derivs. were somewhat less effective. The phosphate and dithiophosphate derivs. were good antiwear additives, but only the latter appeared potentially useful

for improving extreme-pressure lubrication. Structure-performance correlations favored use of the esters over the amides.

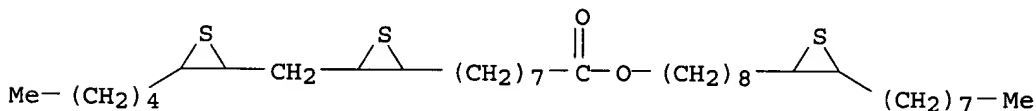
ACCESSION NUMBER: 1976:76603 CAPLUS  
DOCUMENT NUMBER: 84:76603  
TITLE: Lubricants and lubricant additives. II. Performance characteristics of some substituted fatty acid esters  
AUTHOR(S): Magne, F. C.; Mod, R. R.; Sumrell, G.; Koos, R. E.; Parker, W. E.  
CORPORATE SOURCE: South. Reg. Res. Cent., ARS, New Orleans, LA, USA  
SOURCE: Journal of the American Oil Chemists' Society (1975), 52(12), 494-7  
CODEN: JAOCA7; ISSN: 0003-021X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 58401-49-3  
RL: USES (Uses)  
(lubricant additives)  
RN 58401-49-3 CAPLUS  
CN Thiiraneoctanoic acid, 3-octyl-, thiiranylmethyl ester (9CI) (CA INDEX NAME)



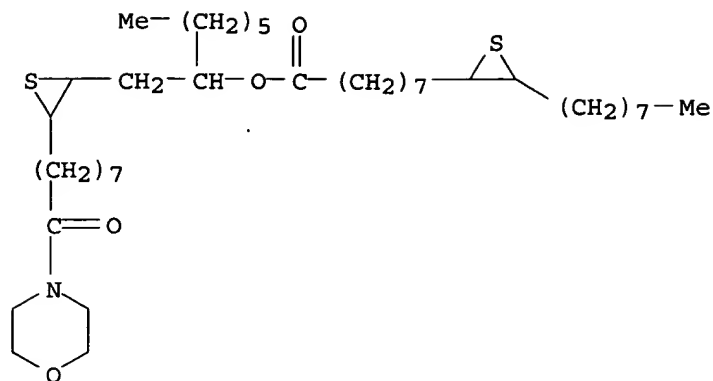
IT 54479-69-5 58401-55-1 58401-73-3  
RL: USES (Uses)  
(lubricants and lubricant additives)  
RN 54479-69-5 CAPLUS  
CN Thiiraneoctanoic acid, 3-octyl-, 8-(3-octylthiiranyl)octyl ester (9CI) (CA INDEX NAME)



RN 58401-55-1 CAPLUS  
CN Thiiraneoctanoic acid, 3-[(3-pentylthiiranyl)methyl]-, 8-(3-octylthiiranyl)octyl ester (9CI) (CA INDEX NAME)



RN 58401-73-3 CAPLUS  
CN Thiiraneoctanoic acid, 3-octyl-, 1-[[3-[8-(4-morpholinyl)-8-oxooctyl]thiiranyl]methyl]heptyl ester (9CI) (CA INDEX NAME)



=> d 119 abs ibib hitstr 2

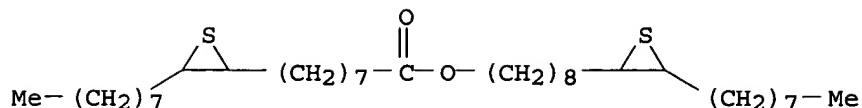
L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AB N-alkyl and N,N-dialkyl or N-alkyl-N-alkoxyalkyl amides of C16-C22 alkenoic or alkenoic fatty acids are good base lubricants. The introduction of divalent S, particularly the epithio group, into the fatty acid moiety imparts extreme pressure (EP) lubricity. Introduction of hydroxy and alkyl phosphate groups  $\alpha$  to each other also imparts EP lubricity. Examples of compds. useful as base lubricants are N-methyl-N-butylolamide [13827-53-7] (I) and N-ethoxyethoxy propylolamide [49542-57-6] (II). Examples of EP lubricants are N,N-dibutyl-9,10-epithiostearamide [49542-62-3] (III), 9,10-epithiostearoyl morpholine [49542-63-4], and N-[9(or 10)-hydroxy-10(or 9)-dibutylphosphoryl]stearamide (IV). IV and its mercapto analog also show antiwear activity. Examples of the preparation of the above compds. and many others are given. The lubricity of these compds. in the Shell Four-Ball wear test using 600 rpm, 120° and 5 kg load for 1 hr are as follows I 0.607, II 0.526, III 0.842, IV 0.498, 100 sec paraffin oil (V) 0.803, Aeroshell (Mil. 7803) bis(2-ethylhexyl) sebacate and additive (VI) 0.587, and Gulf Pride Single G MS multiviscosity oil (VII) 0.447 mm scar D. V is an oil without additives while com. VI and VII are com. lubricants which contain additives to improve performance. Examples of tests of these compds. as EP and low wear additives are given.

ACCESSION NUMBER: 1975:88387 CAPLUS  
DOCUMENT NUMBER: 82:88387  
TITLE: N-Substituted fatty acid amide lubricants  
INVENTOR(S): Magne, Frank C.; Mod, Robert R.; Sumrell, Gene; Parker, Winfred E.  
SOURCE: U. S. Pat. Appl., 42 pp.  
CODEN: XAXXAV  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 334318		19730221	US 1973-334318	19730221
	US 3873457		19750325	US 1973-334318	19730221
IT	54479-69-5P				
	RL: PREP (Preparation)				
	(preparation of and lubricating oil additives from)				
RN	54479-69-5 CAPLUS				
CN	Thiiraneoctanoic acid, 3-octyl-, 8-(3-octylthiiranyl)octyl ester (9CI)				
	(CA INDEX NAME)				





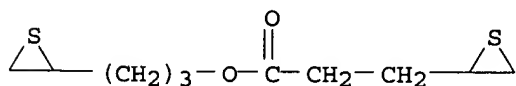
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L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AB The low-temperature vulcanization of natural or synthetic diene-type rubbers with polythiirane compds. in the presence of a catalyst is disclosed. The polythiirane compds. specified in the examples are: 4,5-epithiopentyl 4,5-epithiopentanoate; bis(2,3-epithiopropyl) ether of bis(4-hydroxyphenyl)dimethylmethane (I); bis(2,3-epithiobutyl) ether and bis(2,3-epithiopropyl ether) of ethylene glycol. The catalysts used include diethylaminopropylamine (II), and a BF<sub>3</sub>Et<sub>2</sub>O complex. The materials can be mixed on a conventional rubber mill or in solution in a mixed aromatic hydrocarbon-ketone solvent from which the vulcanizate ppts. The products are particularly suitable for metal adhesives. Thus, Hycar 1432 rubber 4, I 2.5, and II 0.75 g. were mixed in 20 g. iso-BuCOMe and 4.5 g. C<sub>6</sub>H<sub>6</sub>. The resulting cement was spread on 2 pieces of Cu foil and air-dried for 15 min. The pieces were then clamped together for 24 hrs. after which the Mean Peel Load test (ASTM-816) showed a value of 7.6 lb./in. A similar cement was applied to the surfaces of Al foil. After aging for 11 days, the bond was subjected to the Breaking Load test (ASTM-D-1002) and a value of 75 lb. was found.

ACCESSION NUMBER: 1961:30611 CAPLUS  
DOCUMENT NUMBER: 55:30611  
ORIGINAL REFERENCE NO.: 55:6009d-g  
TITLE: Polythiirane-rubber compositions  
INVENTOR(S): Mackinney, Herbert W.  
PATENT ASSIGNEE(S): Union Carbide Corp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 2962457		19601129	US 1958-728514	19580415
IT	102540-61-4, 1-Pentanol, 4,5-epithio-, 4,5-epithiovalerate (in rubber vulcanization)				
RN	102540-61-4 CAPLUS				
CN	Valeric acid, 4,5-epithio-, 4,5-epithiopentyl ester (6CI)			(CA INDEX NAME)	



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.63

1518.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.25

-2.25

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